INDEX OF AUTHORS AND PAPERS

Abdel-Hafez, A.M., Abu-Sitta, A.M.M. and Obada, A.-S.F., A generalized Jaynes–Cummings model for the N-level atom and (N-1) modes 156 (1989) 689
Abu-Sitta, A.M.M., see Abdel-Hafez, A.M. 156 (1989) 689
Ackerson, B.J., see Rouw, P.W. 156 (1989) 876
Alder, B.J., see Sugiyama, G. 156 (1989) 144

Baranowski, B., Friesel, M. and Lundén, A., Pressure dependence of phase transitions in $CsHSO_4$ studied with differential scanning calorimetry 156 (1989) 353
Bedeaux, D., see Van der Linden, E. 156 (1989) 130
Bedeaux, D., see Venema, P. 156 (1989) 835
Block, S., Piermarini, G.J., Munro, R.G. and Fuller, E., Isothermal phase behavior of Ag_3SbS_3, $ZnGeP_2$ and ZnS 156 (1989) 341
Bonadeo, H., see Burgos, E. 156 (1989) 713
Bose, T.K., see Thoen, J. 156 (1989) 92
Brugge, H.B., Hwang, C.-A., Rogers, W.J., Holste, J.C., Hall, K.R., Lemming, W., Esper, G.J., Marsh, K.N. and Gammon, B.E., Experimental cross virial coefficients for binary mixtures of carbon dioxide with nitrogen, methane and ethane at 300 and 320 K 156 (1989) 382
Brummelhuis, M.J.A.M. and Hilhorst, H.J., Tracer particle motion in a two-dimensional lattice gas with low vacancy density 156 (1989) 575
Bundy, F.P., Pressure–temperature phase diagram of elemental carbon 156 (1989) 169
Burgos, E. and Bonadeo, H., The car parking problem at high densities 156 (1989) 713

Calvo Hernández, A., see Güémez, J. 156 (1989) 823
Carr, H.Y., Nuclear spin multiplet collapse in HD gas 156 (1989) 212
Casademunt, J., Jimenez-Aquino, J.I. and Sancho, J.M., NLRT formalism for transient stochastic dynamics 156 (1989) 628
Chandrasekhar, S., see Kini, U.D. 156 (1989) 364
Cohen, E.G.D., see Van Loef, J.J. 156 (1989) 522
Corsten, M., Jan, N. and Jerrard, R., Critical properties of random-site percolation in two and three dimensions: a Monte Carlo study 156 (1989) 781

De Kruif, C.G., see Rouw, P.W. 156 (1989) 876
Dekker, H., Incoherent tunneling at weak bias: weak quantum damping 156 (1989) 756
Dix, M., see Nieto de Castro, C.A. 156 (1989) 534
Dixon, J.M., see Tuszyński, J.A. 156 (1989) 924
Drickamer, H.G., Pressure tuning and electronic phemomena 156 (1989) 179

Erzan, A., see Siebesma, A.P. 156 (1989) 613
Esper, G.J., see Brugge, H.B. 156 (1989) 382
Ewing, M.B., Owusu, A.A. and Trusler, J.P.M., Second acoustic virial coefficients of argon between 100 and 304 K 156 (1989) 899

Fareleira, J.M.N.A., see Nieto de Castro, C.A. 156 (1989) 534
Findenegg, G.H., see Süssmann, R. 156 (1989) 114
Fisher, M.E., see Liu, A.J. 156 (1989) 35
Franck, E.U., see Reuter, K. 156 (1989) 294
Frenkel, D., see Veerman, J.A.C. 156 (1989) 599
Friesel, M., see Baranowski, B. 156 (1989) 353
Fuller, E., see Block, S. 156 (1989) 341

Gammon, B.E., see Brugge, H.B. 156 (1989) 382
Garrabos, Y., see Le Neindre, B. 156 (1989) 512
Geiger, S., see Van der Linden, E. 156 (1989) 130
Gonen, O. and Waugh, J.S., NMR relaxation mechanisms and line widths in insulators below 1 K 156 (1989) 219
Grodkiewicz, W.H., see Jayaraman, A. 156 (1989) 325
Güémez, J., Velasco, S. and Calvo Hernández, A., Critical points characterization using probability distributions. III. Ferromagnetic phase transition 156 (1989) 823

Haidar, G., see Rai, A. 156 (1989) 936
Hall, K.R., see Brugge, H.B. 156 (1989) 382
Hardman, I., Umezawa, H. and Yamanaka, Y., Self-consistent analysis of a thermally dissipative quantum field system: Korenman's model 156 (1989) 853
Hermans, L.J.F., see Horne, R. 156 (1989) 492
Hilhorst, H.J., see Brummelhuis, M.J.A.M. 156 (1989) 575
Holste, J.C., see Brugge, H.B. 156 (1989) 382
Hori, M., see Matsunaga, N. 156 (1989) 547
Horne, R. and Hermans, L.J.F., Rotational polarization in a Knudsen flow; various gases on mica between 293 and 666 K 156 (1989) 492
House, W.V., see Zega, J.A. 156 (1989) 277
Hwang, C.-A., see Brugge, H.B. 156 (1989) 382

Iso, A. and Uematsu, M., Thermodynamic properties of 1,1-difluoroethane in the super-critical and high-density regions 156 (1989) 454

Jan, N., see Corsten, M. 156 (1989) 781
Jayaraman, A., Kourouklis, G.A., Van Uitert, L.G., Grodkiewicz, W.H. and Maines Sr., R.G., A high-pressure Ramam study of $KReO_4$, $RbReO_4$ and $CsReO_4$ to 25 GPa and pressure-induced phase transitions 156 (1989) 325
Jerrard, R., see Corsten, M. 156 (1989) 781
Jimenez-Aquino, J.I., see Casademunt, J. 156 (1989) 628
Jonas, J., see McDaniel, P.L. 156 (1989) 203

Kestin, J., see Uribe, F.J. 156 (1989) 467
Kindt, R., see Thoen, J. 156 (1989) 92
Kini, U.D. and Chandrasekhar, S., Elastic constants of a biaxial nematic liquid crystal 156 (1989) 364
Klug, D.D. and Whalley, E., Disorder-induced piezoelectric and piezo-optic effects. II. Piezoelectric effects in amorphous germanium dioxide, arsenic, and boric oxide 156 (1989) 376
Knobler, C.M., see Winnick, J. 156 (1989) 77
Kobayashi, R., see Zega, J.A. 156 (1989) 277
Kourouklis, G.A., see Jayaraman, A. 156 (1989) 325

Kumar, S., see Rai, A. 156 (1989) 936

Le Neindre, B., Garrabos, Y. and Tufeu, R., Thermal conductivity of dense noble gases 156 (1989) 512
Lemming, W., see Brugge, H.B. 156 (1989) 382
Levelt Sengers, J.M.H. and Sengers, J.V., Van der Waals Fund, van der Waals Laboratory and Dutch high-pressure science 156 (1989) 1
Li, S.F.Y., see Nieto de Castro, C.A. 156 (1989) 534
Lichtenthaler, R.N., see Peters, C.J. 156 (1989) 417
Liu, A.J. and Fisher, M.E., The three-dimensional Ising model revisited numerically 156 (1989) 35
Liu, G., see McDaniel, P.L. 156 (1989) 203
Luigjes, H., see Peereboom, P.W.E. 156 (1989) 260
Lundén, A., see Baranowski, B. 156 (1989) 353

Maines Sr., R.G., see Jayaraman, A. 156 (1989) 325
Malomed, B.A. and Staroselsky, I.E., Influence of collisions on the fluctuations of a distribution function in a rarefied gas 156 (1989) 726
Maritan, A., Seno, F. and Stella, A.L., Real space renormalization group approach to the theta point of a linear ploymer in 2 and 3 dimensions 156 (1989) 679
Marsh, K.N., see Brugge, H.B. 156 (1989) 382
Mason, E.A., see Uribe, F.J. 156 (1989) 467
Matsunaga, N., Hori, M. and Nagashima, A., Unified approach to correlating the viscosities of H_2O and D_2O in the liquid and gaseous phases 156 (1989) 547
McDaniel, P.L., Liu, G. and Jonas, J., High-pressure deuterium solid-state NMR study of the dynamics of pyridine intercalated $CdPS_3$ 156 (1989) 203
Merabet, M., see Thoen, J. 156 (1989) 92
Morita, T., Sato, H., Uematsu, M. and Watanabe, K., *PVT* properties and vapor-pressures of ordinary water substance in the critical region 156 (1989) 436
Mostert, R., Van der Gulik, P.S. and Van den Berg, H.R., The working equations of a vibrating wire viscometer 156 (1989) 909
Mostert, R., Van der Gulik, P.S. and Van den Berg, H.R., Comment on the experimental viscosity of argon at high densities 156 (1989) 921
Munro, R.G., see Block, S. 156 (1989) 341

Nagashima, A., see Matsunaga, N. 156 (1989) 547
Nieto de Castro, C.A., Dix, M., Fareleira, J.M.N.A., Li, S.F.Y. and Wakeham, W.A., Thermal conductivity of chlorobenzene at pressures up to 430 MPa 156 (1989) 534

Obada, A.-S.F., see Abdel-Hafez, A.M. 156 (1989) 689
Oppenheim, I., see Romero-Rochin, V. 156 (1989) 244
Orsky, A., see Romero-Rochin, V. 156 (1989) 244
Owusu, A.A., see Ewing, M.B. 156 (1989) 899

Peereboom, P.W.E., Luigjes, H. and Prins, K.O., An NMR spin-echo study of self-diffusion in xenon 156 (1989) 260
Peters, C.J. and Lichtenthaler, R.N., Calculation of thermodynamic properties from a parametric integral equation 156 (1989) 417
Piermarini, G.J., see Block, S. 156 (1989) 341
Pietronero, L., see Siebesma, A.P. 156 (1989) 613
Prins, K.O., see Peereboom, P.W.E. 156 (1989) 260

Rai, A., Vishwakarma, J.P., Haidar, G. and Kumar, S., Non-linear breaking of weak waves in a thermally conducting and dissociating gas flow 156 (1989) 936
Reuter, K., Rosenzweig, S. and Franck, E.U., The static dielectric constant of CH_3F and CHF_3 to 468 K and 2000 bar 156 (1989) 294
Rogers, W.J., see Brugge, H.B. 156 (1989) 382
Romero-Rochin, V., Orsky, A. and Oppenheim, I., Theory of spin-relaxation processes 156 (1989) 244
Rosenzweig, S., see Reuter, K. 156 (1989) 294
Rouw, P.W., Woutersen, A.T.J.M., Ackerson, B.J. and De Kruif, C.G., Adhesive hard sphere dispersions. V. Observation of spinodal decomposition in a colloidal dispersion 156 (1989) 876
Rowlinson, J.S., The Yukawa potential 156 (1989) 15

Sancho, J.M., see Casademunt, J. 156 (1989) 628
Sato, H., see Morita, T. 156 (1989) 436
Schoolderman, A.J. and Suttorp, L.G., Long-time tails of the heat-conductivity time correlation functions for a magnetized plasma: a kinetic-theory approach 156 (1989) 795
Schouten, J.A. and Van der Putten, L., The thermodynamic discontinuities ΔS, ΔH, ΔV, and the melting line of molecular systems at high pressure 156 (1989) 303
Scott, R.L., see Winnick, J. 156 (1989) 77
Sengers, J.V., see Levelt Sengers, J.M.H. 156 (1989) 1
Seno, F., see Maritan, A. 156 (1989) 679
Siebesma, A.P., Tremblay, R.R., Erzan, A. and Pietronero, L., Multifractal cascades with interactions 156 (1989) 613
Škarka, V., Explicit solution of the nonlinear Vlasov equation using the subdynamics approach 156 (1989) 651
Staroselsky, I.E., see Malomed, B.A. 156 (1989) 726
Stella, A.L., see Maritan, A. 156 (1989) 679
Sugiyama, G., Zerah, G. and Alder, B.J., Ground-state properties of metallic lithium 156 (1989) 144
Süssmann, R. and Findenegg, G.H., Critical adsorption at the surface of a polymer solution. Analysis of ellipsometric data on the depletion layer near the critical solution point 156 (1989) 114
Suttorp, L.G., see Schoolderman, A.J. 156 (1989) 795

Taguchi, Y.-H., Fracture propagation governed by the Laplace equation 156 (1989) 741
Thoen, J., Kindt, R., Van Dael, W., Merabet, M. and Bose, T.K., Low-frequency dielectric dispersion and electric conductivity near the consolute point in some binary liquid mixtures 156 (1989) 92
Tremblay, R.R., see Siebesma, A.P. 156 (1989) 613
Trusler, J.P.M., see Ewing, M.B. 156 (1989) 899
Tufeu, R., see Le Neindre, B. 156 (1989) 512
Tuszyński, J.A. and Dixon, J.M., Calculations of relativistic crystal-field contributions to the zero-field splittings in 4f and 3d ion complexes 156 (1989) 924

Uematsu, M., see Morita, T. 156 (1989) 436
Uematsu, M., see Iso, A. 156 (1989) 454
Umezawa, H., see Hardman, I. 156 (1989) 853
Uribe, F.J., Mason, E.A. and Kestin, J., A correlation scheme for the thermal conductivity of polyatomic gases at low density 156 (1989) 467

Van Dael, W., see Thoen, J. 156 (1989) 92
Van den Berg, H.R., see Mostert, R. 156 (1989) 909
Van den Berg, H.R., see Mostert, R. 156 (1989) 921
Van der Gulik, P.S., see Mostert, R. 156 (1989) 909
Van der Gulik, P.S., see Mostert, R. 156 (1989) 921
Van der Linden, E., Geiger, S. and Bedeaux, D., The Kerr constant of a microemulsion for a low volume fraction of water 156 (1989) 130
Van der Putten, L., see Schouten, J.A. 156 (1989) 303
Van Loef, J.J. and Cohen, E.G.D., Transport coefficients of simple fluids in a density range from the solid to the dilute gas 156 (1989) 522
Van Uitert, L.G., see Jayaraman, A. 156 (1989) 325
Veerman, J.A.C. and Frenkel, D., Computer simulation of crystal nucleation of parallel hard spherocylinders 156 (1989) 599
Velasco, S., see Güémez, J. 156 (1989) 823
Venema, P. and Bedeaux, D., Reaction–diffusion on a periodic array of penetrable spherical sinks 156 (1989) 835
Vishwakarma, J.P., see Rai, A. 156 (1989) 936

Wakeham, W.A., see Nieto de Castro, C.A. 156 (1989) 534
Walraven, J.T.M., Spin-polarized atomic hydrogen and deuterium quantum gases 156 (1989) 227
Watanabe, K., see Morita, T. 156 (1989) 436
Waugh, J.S., see Gonen, O. 156 (1989) 219
Whalley, E., see Klug, D.D. 156 (1989) 376
Winnick, J., Knobler, C.M. and Scott, R.L., Critical phenomena in the ultracentrifuge: some new experimental evidence 156 (1989) 77
Woutersen, A.T.J.M., see Rouw, P.W. 156 (1989) 876

Yamanaka, Y., see Hardman, I. 156 (1989) 853

Zega, J.A., House, W.V. and Kobayashi, R., A corresponding-states correlation of spin relaxation in normal alkanes 156 (1989) 277
Zerah, G., see Sugiyama, G. 156 (1989) 144

ANALYTIC SUBJECT INDEX

Acoustic virial coefficients (see *Argon*) 156 (1989) 899
Adsorption, critical (see *Polymer solution*) 156 (1989) 114
Ag_3SbS_3
– Isothermal phase behavior of—, $ZnGeP_2$ and ZnS - Block et al. 156 (1989) 341
Alkanes
– A corresponding-states correlation of spin relaxation in normal— - Zega et al. 156 (1989) 277
Argon
– Thermal conductivity of dense noble gases - Le Neindre et al. 156 (1989) 512
– Transport coefficients of simple fluids in a density range from the solid to the dilute gas - van Loef and Cohen 156 (1989) 522
– Second acoustic virial coefficients of—between 100 and 304 K - Ewing et al. 156 (1989) 899
Argon (see *Viscosity of argon*) 156 (1989) 921
Arsenic
– Disorder-induced piezoelectric and piezo-optic effects. II. Piezoelectric effects in amorphous germanium dioxide,—, and boric oxide - Klug and Whalley 156 (1989) 376
Atom–radiation interaction (see *N-level atom, (N−1) mode system*) 156 (1989) 689

Benzene (see *Chlorobenzene*) 156 (1989) 534
Biaxial nematic phase
– Elastic constants of a biaxial nematic liquid crystal - Kini and Chandrasekhar 156 (1989) 364
Binary liquid mixtures
– Low-frequency dielectric dispersion and electric conductivity near the consolute point in some— - Thoen et al. 156 (1989) 92
Binary mixtures
– Experimental cross virial coefficients for—of carbon dioxide with nitrogen, methane and ethane at 300 and 320 K - Brugge et al. 156 (1989) 382
Boltzmann equation
– Influence of collisions on the fluctuations of a distribution function in a rarefied gas - Malomed and Staroselsky 156 (1989) 726
Boric oxide
– Disorder-induced piezoelectric and piezo-optic effects. II. Piezoelectric effects in amorphous germanium dioxide, arsenic, and— - Klug and Whalley 156 (1989) 376
Bose–Einstein condensation
– Spin-polarized atomic hydrogen and deuterium quantum gases - Walraven 156 (1989) 227
Boundary condition dependence (see *Random β-model*) 156 (1989) 613
Breaking of weak waves (see *Gas flow*) 156 (1989) 936
Brownian motion, correlated (see *Tracer diffusion*) 156 (1989) 575
Bulk modulus (see *Phase behavior, isothermal*) 156 (1989) 341
Burnett apparatus (see *Binary mixtures*) 156 (1989) 382

Car parking problem
– The—at high densities - Burgos and Bonadeo 156 (1989) 713

Carbon, elemental
– Pressure–temperature phase diagram of elemental carbon - Bundy 156 (1989) 169
$CdPS_3$ (see *Pyridine intercalated $CdPS_3$*) 156 (1989) 203
CHF_3
– The static dielectric constant of CH_3F and—to 468 K and 2000 bar - Reuter et al. 156 (1989) 294
Chlorobenzene
– Thermal conductivity of—at pressures up to 430 MPa - Nieto de Castro et al. 156 (1989) 534
CH_3F
– The static dielectric constant of—and CHF_3 to 468 K and 2000 bar - Reuter et al. 156 (1989) 294
Colloidal dispersion
– Adhesive hard sphere dispersions. V. Observation of spinodal decomposition in a— - Rouw et al. 156 (1989) 876
Correlation scheme (see *Polyatomic gases*) 156 (1989) 467
Corresponding-states correlation (see *Alkanes*) 156 (1989) 277
Corresponding-states principle (see *Viscosity correlation of H_2O and D_2O*) 156 (1989) 547
CO_2+CH_4
– Experimental cross virial coefficients for binary mixtures of carbon dioxide with nitrogen, methane and ethane at 300 and 320 K - Brugge et al. 156 (1989) 382
$CO_2+C_2H_6$
– Experimental cross virial coefficients for binary mixtures of carbon dioxide with nitrogen, methane and ethane at 300 and 320 K - Brugge et al. 156 (1989) 382
CO_2+N_2
– Experimental cross virial coefficients for binary mixtures of carbon dioxide with nitrogen, methane and ethane at 300 and 320 K - Brugge et al. 156 (1989) 382
Critical exponents (see *Percolation, random-site*) 156 (1989) 781
Critical-point behavior (see *Ising model, three-dimensional*) 156 (1989) 35
Critical points characterization
– —using probability distributions. III. Ferromagnetic phase transition - Güémez et al. 156 (1989) 823
Critical solution point (see *Polymer solution*) 156 (1989) 114
Critical solution temperature (see *Ultracentrifuge*) 156 (1989) 77
Crystal-field contributions (see *Paramagnetic ion complexes*) 156 (1989) 924
$CsHSO_4$
– Pressure dependence of phase transitions in—studied with differential scanning calorimetry - Baranowski et al. 156 (1989) 353
$CsReO_4$
– A high-pressure Ramam study of $KReO_4$, $RbReO_4$ and—to 25 GPa and pressure-induced phase transitions - Jayaraman et al. 156 (1989) 325

Damping, quantum
– Incoherent tunneling at weak bias: weak quantum damping - Dekker 156 (1989) 756
Deuterium (see *Quantum gases*) 156 (1989) 227
Diamond anvil cell (see *Perrehenates*) 156 (1989) 325
Diamond anvil cell (see *Phase behavior, isothermal*) 156 (1989) 341
Diamond (see *Carbon, elemental*) 156 (1989) 169
Dielectric constant, high-pressure (see *Fluoromethanes*) 156 (1989) 294
Dielectric dispersion (see *Binary liquid mixtures*) 156 (1989) 92
Differential approximants (see *Ising model, three-dimensional*) 156 (1989) 35

Differential scanning calorimetry
– The thermodynamic discontinuities ΔS, ΔH, ΔV, and the melting line of molecular systems at high pressure - Schouten and van der Putten 156 (1989) 303
Differential scanning calorimetry (see $CsHSO_4$) 156 (1989) 353
Discontinuities, thermodynamic (see *Molecular systems at high pressure*) 156 (1989) 303
Disordered materials
– High-pressure deuterium solid-state NMR study of the dynamics of pyridine intercalated $CdPS_3$ - McDaniel et al. 156 (1989) 203
Disordered solids
– Disorder-induced piezoelectric and piezo-optic effects. II. Piezoelectric effects in amorphous germanium dioxide, arsenic, and boric oxide - Klug and Whalley 156 (1989) 376
Dispersions, hard sphere
– Adhesive hard sphere dispersions. V. Observation of spinodal decomposition in a colloidal dispersion - Rouw et al. 156 (1989) 876
Divergence, small-distance (see *Boltzmann equation*) 156 (1989) 726
D_2O
– Unified approach to correlating the viscosities of H_2O and—in the liquid and gaseous phases - Matsunaga et al. 156 (1989) 547

Elastic constants (see *Liquid crystals*) 156 (1989) 364
Electric conductivity (see *Binary liquid mixtures*) 156 (1989) 92
Electrolytes (see *Yukawa potential*) 156 (1989) 15
Electronic phenomena
– Pressure tuning and electronic phemomena - Drickamer 156 (1989) 179
Ellipsometry (see *Polymer solution*) 156 (1989) 114

Ferromagnetic phase transition (see *Critical points characterization*) 156 (1989) 823
First passage time, mean (see *Transient stochastic dynamics*) 156 (1989) 628
Fluctuations of distribution function (see *Boltzmann equation*) 156 (1989) 726
Fluid of spherocylinders (see *Nucleation, crystal*) 156 (1989) 599
Fluids, simple
– Transport coefficients of simple fluids in a density range from the solid to the dilute gas - van Loef and Cohen 156 (1989) 522
Fluoromethanes
– The static dielectric constant of CH_3F and CHF_3 to 468 K and 2000 bar - Reuter et al. 156 (1989) 294
4f ion complexes
– Calculations of relativistic crystal-field contributions to the zero-field splittings in 4f and 3d ion complexes - Tuszyński and Dixon 156 (1989) 924
Fractal dimension (see *Percolation, random-site*) 156 (1989) 781
Fracture propagation
– —governed by the Laplace equation - Taguchi 156 (1989) 741
Fragmentation process (see *Random β*-model) 156 (1989) 613

Gas flow
– Non-linear breaking of weak waves in a thermally conducting and dissociating— - Rai et al. 156 (1989) 936
Gas–mica interaction (see *Knudsen particle flow*) 156 (1989) 492
Germanium dioxide
– Disorder-induced piezoelectric and piezo-optic effects. II. Piezoelectric effects in amorphous—, arsenic, and boric oxide - Klug and Whalley 156 (1989) 376

Ground-state properties (see *Metallic lithium*) 156 (1989) 144

Hard core molecules (see *Nucleation, crystal*) 156 (1989) 599
HD gas
– Nuclear spin multiplet collapse in— - Carr 156 (1989) 212
Heat-conductivity time correlation functions (see *Plasma, magnetized*) 156 (1989) 795
Helium
– Thermal conductivity of dense noble gases - Le Neindre et al. 156 (1989) 512
High-pressure conductivity (see *Chlorobenzene*) 156 (1989) 534
High-pressure phase transitions (see *$CsHSO_4$*) 156 (1989) 353
High-pressure science
– Van der Waals Fund, van der Waals Laboratory and Dutch— - Levelt Sengers and Sengers 156 (1989) 1
High-pressure spectroscopy (see *Electronic phenomena*) 156 (1989) 179
H_2O
– Unified approach to correlating the viscosities of—and D_2O in the liquid and gaseous phases - Matsunaga et al. 156 (1989) 547
Hydrocarbon–fluorocarbon mixtures (see *Ultracentrifuge*) 156 (1989) 77
Hydrogen (see *Quantum gases*) 156 (1989) 227

Insulators
– NMR relaxation mechanisms and line widths in—below 1 K - Gonen and Waugh 156 (1989) 219
Integral equation, parametric
– Calculation of thermodynamic properties from a parametric integral equation - Peters and Lichtenthaler 156 (1989) 417
Intercalated compound (see *Pyridine intercalated $CdPS_3$*) 156 (1989) 203
Interface, liquid–gas (see *Polymer solution*) 156 (1989) 114
Intermolecular potential (see *Yukawa potential*) 156 (1989) 15
Ising model, three-dimensional
– The three-dimensional Ising model revisited numerically - Liu and Fisher 156 (1989) 35
Ising model (see *Critical points characterization*) 156 (1989) 823
Isothermal compressibility (see *1,1- difluoroethane*) 156 (1989) 454

Jaynes–Cummings model
– A generalized—for the N-level atom and $(N-1)$ modes - Abdel-Hafez et al. 156 (1989) 689

Kerr constant
– The—of a microemulsion for a low volume fraction of water - van der Linden et al. 156 (1989) 130
Kinetic theory (see *Plasma, magnetized*) 156 (1989) 795
Knudsen particle flow
– Rotational polarization in a Knudsen flow; various gases on mica between 293 and 666 K - Horne and Hermans 156 (1989) 492
Korenman model (see *Quantum field system, thermally dissipative*) 156 (1989) 853
$KReO_4$
– A high-pressure Ramam study of—, $RbReO_4$ and $CsReO_4$ to 25 GPa and pressure-induced phase transitions - Jayaraman et al. 156 (1989) 325
Krypton
– Thermal conductivity of dense noble gases - Le Neindre et al. 156 (1989) 512

Langevin equations (see *Transient stochastic dynamics*) 156 (1989) 628

Laplace equation (see *Fracture propagation*) 156 (1989) 741
Lennard-Jones potential (see *Integral equation, parametric*) 156 (1989) 417
Liquid crystals
– Elastic constants of a biaxial nematic liquid crystal - Kini and Chandrasekhar 156 (1989) 364
Lithium,metallic
– Ground-state properties of metallic lithium - Sugiyama et al. 156 (1989) 144

Melting line (see *Molecular systems at high pressure*) 156 (1989) 303
Metallic lithium
– Ground-state properties of— - Sugiyama et al. 156 (1989) 144
Metastable smetic phase (see *Nucleation, crystal*) 156 (1989) 599
Methane
– Transport coefficients of simple fluids in a density range from the solid to the dilute gas - van Loef and Cohen 156 (1989) 522
Microemulsion (see *Kerr constant*) 156 (1989) 130
Molecular dynamics simulation (see *Nucleation, crystal*) 156 (1989) 599
Molecular systems at high pressure
– The thermodynamic discontinuities ΔS, ΔH, ΔV, and the melting line of— - Schouten and van der Putten 156 (1989) 303
Molecule–surface interaction (see *Knudsen particle flow*) 156 (1989) 492
Monte Carlo calculations, quantum (see *Metallic lithium*) 156 (1989) 144
Monte Carlo study (see *Percolation, random-site*) 156 (1989) 781
Multifractal cascades
– —with interactions - Siebesma et al. 156 (1989) 613
Multifractality (see *Fracture propagation*) 156 (1989) 741

N-level atom, (N−1) mode system
– A generalized Jaynes–Cummings model for the N-level atom and (N-1) modes - Abdel-Hafez et al. 156 (1989) 689
NMR (see *Alkanes*) 156 (1989) 277
NMR (see *HD gas*) 156 (1989) 212
NMR (see *Insulators*) 156 (1989) 219
NMR (see *Pyridine intercalated $CdPS_3$*) 156 (1989) 203
NMR spin-echo technique (see *Xenon*) 156 (1989) 260
Noble gases, dense
– Thermal conductivity of dense noble gases - Le Neindre et al. 156 (1989) 512
Nucleation, crystal
– Computer simulation of crystal nucleation of parallel hard spherocylinders - Veerman and Frenkel 156 (1989) 599

1,1- difluoroethane
– Thermodynamic properties of 1,1-difluoroethane in the super-critical and high-density regions - Iso and Uematsu 156 (1989) 454

Ornstein–Zernike theory (see *Yukawa potential*) 156 (1989) 15
Oscillator, metastable (see *Quantum damping, weak*) 156 (1989) 756

Paramagnetic ion complexes
– Calculations of relativistic crystal-field contributions to the zero-field splittings in 4f and 3d ion complexes - Tuszyński and Dixon 156 (1989) 924
Penetrable spherical sinks (see *Periodic array of sinks*) 156 (1989) 835

Percolation, random-site
– Critical properties of random-site percolation in two and three dimensions: a Monte Carlo study - Corsten et al. 156 (1989) 781
Periodic array of sinks
– Reaction–diffusion on a periodic array of penetrable spherical sinks - Venema and Bedeaux 156 (1989) 835
Perrehenates
– A high-pressure Ramam study of $KReO_4$, $RbReO_4$ and $CsReO_4$ to 25 GPa and pressure-induced phase transitions - Jayaraman et al. 156 (1989) 325
Phase behavior, isothermal
– Isothermal phase behavior of Ag_3SbS_3, $ZnGeP_2$ and ZnS - Block et al. 156 (1989) 341
Phase diagram (see *Carbon, elemental*) 156 (1989) 169
Phase separation (see *Colloidal dispersion*) 156 (1989) 876
Phase transitions (see *$CsHSO_4$*) 156 (1989) 353
Piezoelectric effects (see *Disordered solids*) 156 (1989) 376
Plasma, magnetized
– Long-time tails of the heat-conductivity time correlation functions for a magnetized plasma: a kinetic-theory approach - Schoolderman and Suttorp 156 (1989) 795
Plasmas, Vlasov type (see *Vlasov equation, nonlinear*) 156 (1989) 651
Polarizability, optical
– The Kerr constant of a microemulsion for a low volume fraction of water - van der Linden et al. 156 (1989) 130
Polarization, rotational (see *Knudsen particle flow*) 156 (1989) 492
Polyatomic gases
– A correlation scheme for the thermal conductivity of—at low density - Uribe et al. 156 (1989) 467
Polymer solution
– Critical adsorption at the surface of a—. Analysis of ellipsometric data on the depletion layer near the critical solution point - Süssmann and Findenegg 156 (1989) 114
Polymers, linear
– Real space renormalization group approach to the theta point of a linear ploymer in 2 and 3 dimensions - Maritan et al. 156 (1989) 679
Pressure tuning
– —and electronic phemomena - Drickamer 156 (1989) 179
Probability distributions (see *Critical points characterization*) 156 (1989) 823
Projection operator technique (see *Spin–bath coupling*) 156 (1989) 244
PVT properties of water
– *PVT* properties and vapor-pressures of ordinary water substance in the critical region - Morita et al. 156 (1989) 436
Pyridine intercalated $CdPS_3$
– High-pressure deuterium solid-state NMR study of the dynamics of— - McDaniel et al. 156 (1989) 203

Quantum damping, weak
– Incoherent tunneling at weak bias: weak quantum damping - Dekker 156 (1989) 756
Quantum field system, thermally dissipative
– Self-consistent analysis of a thermally dissipative quantum field system: Korenman's model - Hardman et al. 156 (1989) 853
Quantum gases
– Spin-polarized atomic hydrogen and deuterium — - Walraven 156 (1989) 227

Radial distribution function (see *Integral equation, parametric*) 156 (1989) 417
Radial distribution functions (see *Random sequential systems*) 156 (1989) 713
Raman spectroscopy, high-pressure (see *Perrehenates*) 156 (1989) 325
Random β-model
– Multifractal cascades with interactions - Siebesma et al. 156 (1989) 613
Random sequential systems
– The car parking problem at high densities - Burgos and Bonadeo 156 (1989) 713
Rarefied gas
– Influence of collisions on the fluctuations of a distribution function in a— - Malomed and Staroselsky 156 (1989) 726
$RbReO_4$
– A high-pressure Ramam study of $KReO_4$, —and $CsReO_4$ to 25 GPa and pressure-induced phase transitions - Jayaraman et al. 156 (1989) 325
Reaction–diffusion process (see *Periodic array of sinks*) 156 (1989) 835
Real space renormalization group (see *Theta-point transition*) 156 (1989) 679
Refrigerant (see *1,1- difluoroethane*) 156 (1989) 454
Relaxation, low temperature (see *Insulators*) 156 (1989) 219
Relaxation time, nonlinear
– NLRT formalism for transient stochastic dynamics - Casademunt et al. 156 (1989) 628
Renormalization, Nagatani (see *Fracture propagation*) 156 (1989) 741

Schwinger–Keldysh method (see *Quantum field system, thermally dissipative*) 156 (1989) 853
Self-avoiding walks (see *Theta-point transition*) 156 (1989) 679
Self-diffusion (see *Xenon*) 156 (1989) 260
Sound speed (see *Argon*) 156 (1989) 899
Spin polarization (see *Quantum gases*) 156 (1989) 227
Spin relaxation
– Theory of spin-relaxation processes - Romero-Rochin et al. 156 (1989) 244
Spin–bath coupling
– Theory of spin-relaxation processes - Romero-Rochin et al. 156 (1989) 244
Spin–lattice relaxation (see *Alkanes*) 156 (1989) 277
Spin–lattice relaxation (see *Insulators*) 156 (1989) 219
Spinodal decomposition (see *Colloidal dispersion*) 156 (1989) 876
Spin–spin coupling (see *HD gas*) 156 (1989) 212
Spin–spin relaxation (see *Alkanes*) 156 (1989) 277
Subdynamics approach (see *Vlasov equation, nonlinear*) 156 (1989) 651

Thermal conductivity (see *Chlorobenzene*) 156 (1989) 534
Thermal conductivity (see *Noble gases, dense*) 156 (1989) 512
Thermal conductivity (see *Polyatomic gases*) 156 (1989) 467
Thermo field dynamics (see *Quantum field system, thermally dissipative*) 156 (1989) 853
Thermodynamic properties
– Calculation of—from a parametric integral equation - Peters and Lichtenthaler 156 (1989) 417
Theta-point transition
– Real space renormalization group approach to the theta point of a linear ploymer in 2 and 3 dimensions - Maritan et al. 156 (1989) 679
3d ion complexes
– Calculations of relativistic crystal-field contributions to the zero-field splittings in 4f and— - Tuszyński and Dixon 156 (1989) 924
Tracer diffusion
– Tracer particle motion in a two-dimensional lattice gas with low vacancy density - Brummelhuis and Hilhorst 156 (1989) 575

Transient stochastic dynamics
– NLRT formalism for— - Casademunt et al. 156 (1989) 628
Transition properties (see *Molecular systems at high pressure*) 156 (1989) 303
Transport coefficients (see *Fluids, simple*) 156 (1989) 522
Tunneling, incoherent
– Incoherent tunneling at weak bias: weak quantum damping - Dekker 156 (1989) 756
Turbulence, fully developed
– Multifractal cascades with interactions - Siebesma et al. 156 (1989) 613
Two-dimensional lattice gas
– Tracer particle motion in a—with low vacancy density - Brummelhuis and Hilhorst 156 (1989) 575

Ultracentrifuge
– Critical phenomena in the—: some new experimental evidence - Winnick et al. 156 (1989) 77
Universal amplitude ratios (see *Ising model, three-dimensional*) 156 (1989) 35
Unstable state (see *Transient stochastic dynamics*) 156 (1989) 628

Vacancy density, low (see *Two-dimensional lattice gas*) 156 (1989) 575
Van der Waals
– —Fund,—Laboratory and Dutch high-pressure science - Levelt Sengers and Sengers 156 (1989) 1
Vapor pressure (see *Water, ordinary*) 156 (1989) 436
Vapor pressures (see *1,1- difluoroethane*) 156 (1989) 454
Vapor–liquid critical point (see *Water, ordinary*) 156 (1989) 436
Vibrating wire viscometer
– The working equations of a— - Mostert et al. 156 (1989) 909
Vibrating wire viscometer (see *Viscosity of argon*) 156 (1989) 921
Virial coefficients (see *Binary mixtures*) 156 (1989) 382
Viscosity coefficient (see *Vibrating wire viscometer*) 156 (1989) 909
Viscosity correlation of H_2O and D_2O
– Unified approach to correlating the viscosities of H_2O and D_2O in the liquid and gaseous phases - Matsunaga et al. 156 (1989) 547
Viscosity of argon
– Comment on the experimental—at high densities - Mostert et al. 156 (1989) 921
Vlasov equation, nonlinear
– Explicit solution of the nonlinear Vlasov equation using the subdynamics approach - Škarka 156 (1989) 651
Volume expansion coefficient (see *1,1- difluoroethane*) 156 (1989) 454

Water, ordinary
– *PVT* properties and vapor-pressures of ordinary water substance in the critical region - Morita et al. 156 (1989) 436
Water droplet covered by AOT (see *Kerr constant*) 156 (1989) 130
Weak coupling (see *Spin relaxation*) 156 (1989) 244

X-ray diffraction method (see *Phase behavior, isothermal*) 156 (1989) 341
Xenon
– An NMR spin-echo study of self-diffusion in— - Peereboom et al. 156 (1989) 260
Yukawa potential
– The— - Rowlinson 156 (1989) 15

Zero-field splitting (see *Paramagnetic ion complexes*) 156 (1989) 924
$ZnGeP_2$
– Isothermal phase behavior of Ag_3SbS_3,—and ZnS - Block et al. 156 (1989) 341
ZnS
– Isothermal phase behavior of Ag_3SbS_3, $ZnGeP_2$ and— - Block et al. 156 (1989) 341